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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/638,858	08/15/2000	Goran Rune	2380-163	1139
23117	7590	10/03/2005	EXAMINER	
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203			HO, CHUONG T	
			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/638,858

Applicant(s)

RUNE, GORAN

Examiner

CHUONG T. HO

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 7-12 and 16-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 7-12, 16-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

1. The amendment filed 07/19/05 have been entered and made of record.

***Response to Arguments***

2. Applicant's arguments filed 07/19/05 have been fully considered but they are not persuasive.

In the page 8, lines 21-22, Applicant alleged that "No RNC signaling or address storage is described by Wallentin in conjunction with the location update".

The Applicant's argument is not persuasive.

In the col. 4, lines 11-14, Wallentin discloses "RNC signaling or address storage is described by Wallentin in conjunction with the location update" (see col. 4, lines 11-14, the identity of the routing area where the mobile station is currently located is stored in the RNC which controls the connection to the mobile station, known as the Serving RNC or SRNC). Clearly, RNC signaling or address storage is described by Wallentin in conjunction with the location update.

3. Claims 7-12, 16-18 are pending.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 7-12, 16-18 are rejected under 35 U.S.C. 102(e) as being anticipated by

In the claims 7, 9, 11, see figure 1, Wallentin et al. discloses plurality radio network controllers (RNCs) including a first radio network controller (RNC1), the plurality radio network controllers (RNCs) being situated to establish one or more overlapping routing areas (see col. 3, lines 1-3), each overlapping routing area comprising a cell controlled by the first radio network controller (see col. 4, lines 39-41) and at least one cell controlled by another of the plurality of radio network controllers (RNCs) (see col. 4, lines 39-41, figure 1); comprising:

Wherein, in response to a routing area update procedure initiated by a user equipment unit, as criteria for which other radio network controller to store address for signaling a routing area update request message (see col. 11, lines 20-21);

See col. 4, lines 11-14, wherein for signaling the first radio network controllers (RNC1) 22 need only store network addresses for: any of the plurality radio network controller (RNCs) which controls a cell in any overlapping routing area (see col. 7, lines 48-50, the paging controller is one of the RNCs, particular radio network controller (RNC1) 22. As described below in connection with FIG. 3A, the paging control node of the present invention includes a paging control node paging table 100, see TABLE 1 col. 8, lines 7-25, see col. 8, lines 35-38, the fourth column of TABLE 1 has a value indicative of the number of number RNCs (other than the paging control node) which control cells in the MCA) (see col. 12, lines 8-10, the paging message of event 5-6 includes header 4A-1 which identifies the node to which the paging message is destined, e.g., radio network controller (RNC2) 22);

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Any of the plurality radio network controllers which functions as a serving radio network controller (RNC or SRNC, e.g. RNC2) for a connection for which the first radio network controller (other than SRNC, e.g. RNC1) functions as a drift radio network controller (see col. 4, lines 11-19, the identity of the routing area where the mobile station is currently located is stored in the RNC which controls the connection to the mobile station, known as the Serving RNC or SRNC. For limiting the above-described ping-pong effect, the mobile station's routing area may also include cells that are controlled by RNCs other the RNC which currently in control of the packet switched connection to the mobile station (i.e, other than the SRNC).

5. In the claims 8, 10, 12, Wallentin et al. a signaling network connecting the plural radio network controllers (RNCs), wherein one of the plural radio network controllers (RNCs) is a serving radio network controller which controls a connection between a core network (see figure 1) and a user equipment (mobile station), wherein when the user equipment moves from a first routing area to a second routing area (moveover), the second routing area being an overlapping routing area in which a second radio network controller (RNC2) also controls cells, the first network radio network controller (RNC1) sends, in the routing area update request message to a serving radio network controller, both (1) an address of the first radio network controller, and (2) the address of the second radio network controller, thereby enabling the serving radio network controller to page the user equipment throughout the overlapping routing area (see col. 14, lines 43-58).

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6. In the claims 16, 17, 18, Wallentin et al. discloses the first radio network controller performs the signaling (see col. 14, lines 43-58) when a user equipment unit initiated the routing area update procedure (location update, see col. 11, lines 20-21) and wherein the first radio network controller includes the stored network addresses in the signaling (see col. 8, lines 7-25, see col. 8, lines 35-38).

7. In the claim 9, see figure 1, Wallentin et al. discloses plurality radio network controllers (RNCs) including a first radio network controller (RNC1), the plurality radio network controllers (RNCs) being situated to establish one or more overlapping routing areas (see col. 3, lines 1-3), each overlapping routing area comprising a cell controlled by the first radio network controller (see col. 4, lines 39-41) and at least one cell controlled by another of the plurality of radio network controllers (RNCs) (see col. 4, lines 39-41, figure 1); comprising:

Wherein, in response to a routing area update procedure initiated by a user equipment unit, as criteria for which other radio network controller to store address for signaling a routing area update request message (see col. 11, lines 20-21);

See col. 4, lines 11-14, wherein for signaling the first radio network controllers (RNC1) 22 need only store network addresses for: any of the plurality radio network controller (RNCs) which controls a cell in any overlapping routing area (see col. 7, lines 48-50, the paging controller is one of the RNCs, particular radio network controller (RNC1) 22. As described below in connection with FIG. 3A, the paging control node of the present invention includes a paging control node paging table 100, see TABLE 1 col. 8, lines 7-25, see col. 8, lines 35-38, the fourth column of TABLE 1 has a value indicative of the

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number of number RNCs (other than the paging control node) which control cells in the MCA) (see col. 12, lines 8-10, the paging message of event 5-6 includes header 4A-1 which identifies the node to which the paging message is destined, e.g., radio network controller (RNC2) 22);

Any of the plurality radio network controllers which functions as a serving radio network controller (RNC or SRNC, e.g. RNC2) for a connection for which the first radio network controller (other than SRNC, e.g. RNC1) functions as a drift radio network controller (see col. 4, lines 11-19, the identity of the routing area where the mobile station is currently located is stored in the RNC which controls the connection to the mobile station, known as the Serving RNC or SRNC. For limiting the above-described ping-pong effect, the mobile station's routing area may also include cells that are controlled by RNCs other the RNC which currently in control of the packet switched connection to the mobile station (i.e, other than the SRNC).

8. In the claim 11, see figure 1, Wallentin et al. discloses plurality radio network controllers (RNCs) including a first radio network controller (RNC1), the plurality radio network controllers (RNCs) being situated to establish one or more overlapping routing areas (see col. 3, lines 1-3), each overlapping routing are comprising a cell controlled by the first radio network controller (see col. 4, lines 39-41) and at least one cell controlled by another of the plurality of radio network controllers (RNCs) (see col. 4, lines 39-41, figure1); comprising:

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Wherein, in response to a routing area update procedure initiated by a user equipment unit, as criteria for which other radio network controller to store address for signaling a routing area update request message (see col. 11, lines 20-21);

See col. 4, lines 11-14, wherein for signaling the first radio network controllers (RNC1) 22 need only store network addresses for: any of the plurality radio network controller (RNCs) which controls a cell in any overlapping routing area (see col. 7, lines 48-50, the paging controller is one of the RNCs, particular radio network controller (RNC1) 22. As described below in connection with FIG.3A, the paging control node of the present invention includes a paging control node paging table 100, see TABLE 1 col. 8, lines 7-25, see col. 8, lines 35-38, the fourth column of TABLE 1 has a value indicative of the number of number RNCs (other than the paging control node) which control cells in the MCA) (see col. 12, lines 8-10, the paging message of event 5-6 includes header 4A-1 which identifies the node to which the paging message is destined, e.g., radio network controller (RNC2) 22);

Any of the plurality radio network controllers which functions as a serving radio network controller (RNC or SRNC, e.g. RNC2) for a connection for which the first radio network controller (other than SRNC, e.g. RNC1) functions as a drift radio network controller (see col. 4, lines 11-19, the identity of the routing area where the mobile station is currently located is stored in the RNC which controls the connection to the mobile station, known as the Serving RNC or SRNC. For limiting the above-described ping-pong effect, the mobile station's routing area may also include cells that are controlled



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by RNCs other the RNC which currently in control of the packet switched connection to the mobile station (i.e, other than the SRNC).

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

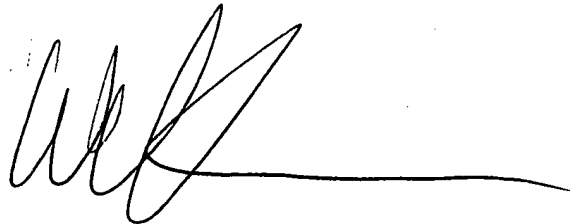
Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHUONG T. HO whose telephone number is (571) 272-3133. The examiner can normally be reached on 8:00 am to 4:00 pm.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

09/22/05

A handwritten signature in black ink, consisting of stylized, overlapping loops and a long horizontal stroke extending to the right.

WELLINGTON CHIN  
ADVISORY PATENT EXAMINER